| **Section 1 – Assessment Task Overview and Description** |
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# Student / Class Details

**Full name:** Shivesh Prasad

**Student ID:** 103642599

**Teacher:** Anh Nguyen

**Date / Time started:** 21/05/2010 12:00 AM

By checking the box below, you agree that penalties exist for plagiarized work and that all work submitted is your own. Please refer to the bottom of the document for more information.

I agree and confirm that all work in this assessment is mine

# Tasks The DM of the Swinburne Caves & Lizards Club has decided that they would like to digitise the dice-rolling that their *adventures* require. They are looking for a developer and as part of their selection/tendering process are running a coding challenge. The requirements for the challenge follow:

# Write a program that simulates rolling dice. When the program runs, it will randomly choose a number between 1 and 6.  The program will print what that number is. It should then ask you if you’d like to roll again.

### Pass Tasks

1. Allow the user to roll dice
2. Store the dice rolls
3. When user chooses, stop
4. Allow user to enter number of rolls to examine
5. From the stored rolls, calculate
   1. Average
   2. Total
   3. List what the rolls were

### Extension (optional) (as above, but include):

1. Allow each roll to consist of two dice.
2. Allow the user to select how many sides are on the die to be rolled.

### Extra Extension (optional):

1. Allow the user to specify how many dice are used for each roll. This won’t change until the program is finished

Concepts to keep in mind:

* Random
* Integer
* Print
* While Loops
* If Statements
* Lists
* Functions (useful)

| **Section 2 – Assessment Task Submission Information** | |
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| **Submission Details** | **Due date:** |
| 1. The assessment task must be submitted via Canvas or directly to the teacher with an assessment cover sheet. 2. Ensure to include on the front page or in the header or footer of your assessment:    * your name    * student ID    * your teacher’s name    * the unit code/s and title/s    * the assessment task title 3. The program must be observed and checked off during the assessment time 4. Submissions received after the submission date must be approved by your teacher. |

| **Summary of Evidence to be Submitted** |
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| * This document with the relevant parts filled in |
| * GitHub link of Source Code in Canvas Comments |
| * Screenshot of the program functioning |
| * A completed observation checklist |
| The task will be assessed as satisfactory when all of the required evidence listed has been satisfactorily demonstrated.  \* If applicable, for graded units, the task must be satisfactorily completed before marks will be allocated. Refer to your unit outline for more information. |

| Section 3 – Assessment Task Criteria and Outcome | |
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| *All items/criteria must be demonstrated satisfactorily to achieve this task. The items/criteria for this activity will be assessed as S – Satisfactory or US – Unsatisfactory.* | |
| Items/criteria | |
| 1. | Loops for the UI |
| 2. | Arrays/List used for storing and calculating |
| 3. | If/Switch statements used for UI |
| 4. | Appropriate datatypes used |
| 5. | Functions used for decomposition |
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| **Section 4 – General Assessment Information** | |
| **Decision Making Rules** | Each activity in the assessment task must be satisfactorily completed for the task to be assessed as satisfactory.  Every task must be satisfactorily completed to be assessed as competent in the unit.  *\* For graded units, competence must be demonstrated before a mark can be given.* |
| **Plagiarism** | There are serious penalties for plagiarism that may include repeating a new assessment task or being withdrawn for the unit / course.  Students must ensure that all assessments are their own work (or group work and clearly noted as such).  Please refer to [www.swinburne.edu.au/corporate/registrar/plagiarism/index.html](http://www.swinburne.edu.au/corporate/registrar/plagiarism/index.html) |
| **Reasonable Adjustment** | Students may request reasonable adjustment for assessment tasks.  Reasonable adjustment usually involves varying:   * the processes for conducting the assessment (eg: allowing additional time, varying the venue) * the evidence gathering techniques (eg: oral rather than written questioning, use of a scribe, modifications to equipment)   However, the evidence collected must allow the student to demonstrate all requirements of the unit.  If you have any other issue that may impact your ability to undertake the assessment, please discuss with your teacher. |
| **Re-submission** *(where tasks are not satisfactorily completed)* | Assessment tasks that are not satisfactory can be resubmitted up until the end of the unit as scheduled on the Unit Outline. The timing on this may depend on the equipment required for this assessment task.  Resubmissions received after the scheduled unit end date may not be accepted unless approved by the teacher prior to the end date.  Note: Assessment tasks submitted for the first time after the unit end date as scheduled in the Unit Outline will not be assessed and the student should re-enrol into the unit. |
| **Special consideration** | Students may apply for Special Consideration where personal circumstances have adversely affected their task result or ability to undertake an assessment. A Special Consideration form can be completed prior to, but no later than 3 days after, the date of assessment and submitted to the relevant Manager. |
| **Work Health & Safety** | Activities may require the use of equipment or participation in group exercises. If the teacher identifies any unsafe activity or potentially dangerous situations, the teacher can stop the assessment at any time. |